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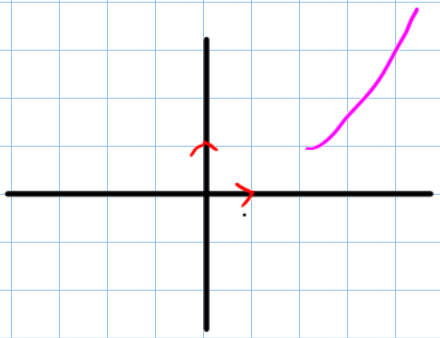
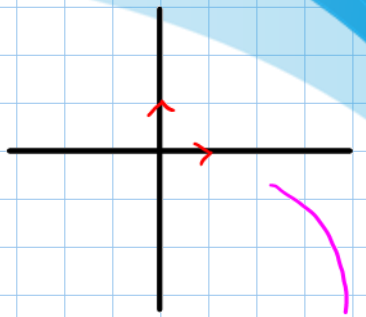
Ainsi C_f admet une **branche parabolique** de direction $(O, \vec{j})$ au voisinage de $+\infty$.

📌 Déterminer $\lim\limits_{x \to \infty} f(x)$ et $\lim\limits_{x \to \infty} \frac{f(x)}{x}$ dans chaque cas :

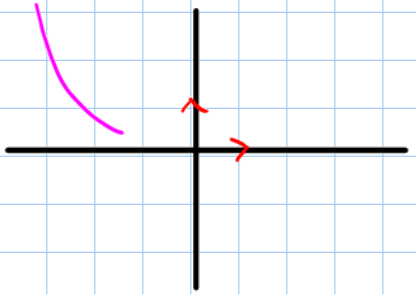
① $\begin{cases} \lim\limits_{x \to +\infty} f(x) = +\infty \\ \lim\limits_{x \to +\infty} \frac{f(x)}{x} = +\infty \end{cases}$



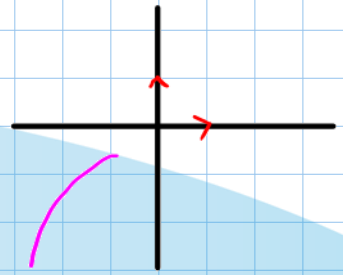
② $\begin{cases} \lim\limits_{x \to +\infty} f(x) = -\infty \\ \lim\limits_{x \to +\infty} \frac{f(x)}{x} = -\infty \end{cases}$



③ $\begin{cases} \lim\limits_{x \to -\infty} f(x) = +\infty \\ \lim\limits_{x \to -\infty} \frac{f(x)}{x} = -\infty \end{cases}$



④ $\begin{cases} \lim\limits_{x \to -\infty} f(x) = -\infty \\ \lim\limits_{x \to -\infty} \frac{f(x)}{x} = +\infty \end{cases}$



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